

**mAChR M2 Polyclonal Antibody**

<b>Catalog No :</b>	YT2612
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;IF;ELISA
<b>Target :</b>	mAChR M2
<b>Fields :</b>	>>Calcium signaling pathway;>>cAMP signaling pathway;>>Neuroactive ligand-receptor interaction;>>PI3K-Akt signaling pathway;>>Cholinergic synapse;>>Regulation of actin cytoskeleton
<b>Gene Name :</b>	CHRM2
<b>Protein Name :</b>	Muscarinic acetylcholine receptor M2
<b>Human Gene Id :</b>	1129
<b>Human Swiss Prot No :</b>	P08172
<b>Mouse Gene Id :</b>	243764
<b>Mouse Swiss Prot No :</b>	Q9ERZ4
<b>Rat Gene Id :</b>	81645
<b>Rat Swiss Prot No :</b>	P10980
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human CHRM2. AA range:185-234
<b>Specificity :</b>	mAChR M2 Polyclonal Antibody detects endogenous levels of mAChR M2 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG

**Dilution :** WB 1:500 - 1:2000. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other applications.

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**Purification :** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

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**Concentration :** 1 mg/ml

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**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

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**Observed Band :** 51kD

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**Cell Pathway :** Calcium;Neuroactive ligand-receptor interaction;Regulates Actin and Cytoskeleton;

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**Background :** The muscarinic cholinergic receptors belong to a larger family of G protein-coupled receptors. The functional diversity of these receptors is defined by the binding of acetylcholine to these receptors and includes cellular responses such as adenylate cyclase inhibition, phosphoinositide degeneration, and potassium channel mediation. Muscarinic receptors influence many effects of acetylcholine in the central and peripheral nervous system. The muscarinic cholinergic receptor 2 is involved in mediation of bradycardia and a decrease in cardiac contractility. Multiple alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Jul 2008],

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**Function :** disease:Genetic variations in CHRM2 can influence susceptibility to major depressive disorder (MDD) [MIM:608516]. MDD is one of the most common psychiatric disorders. MDD is a complex trait characterized by one or more major depressive episodes without a history of manic, mixed, or hypomanic episodes. A major depressive episode is characterized by at least 2 weeks during which there is a new onset or clear worsening of either depressed mood or loss of interest or pleasure in nearly all activities. Four additional symptoms must also be present including changes in appetite, weight, sleep, and psychomotor activity; decreased energy; feelings of worthlessness or guilt; difficulty thinking, concentrating, or making decisions; or recurrent thoughts of death or suicidal ideation, plans, or attempts. The episode must be accompanied by distress or impairment in social, occupational, or other imp

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**Subcellular Location :** Cell membrane ; Multi-pass membrane protein . Cell junction, synapse, postsynaptic cell membrane ; Multi-pass membrane protein . Phosphorylation in response to agonist binding promotes receptor internalization. .

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**Expression :** Brain,Thalamus,

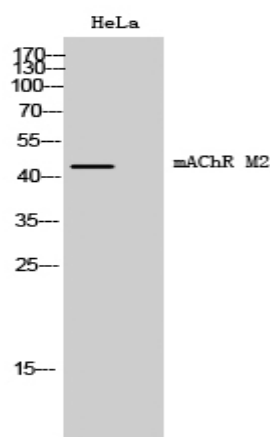
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**Sort :** 9320

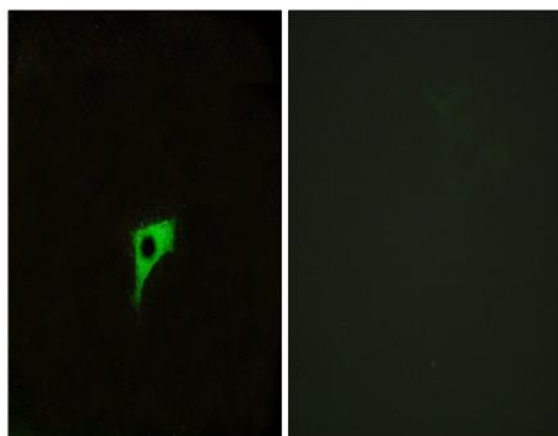
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<b>No4 :</b>	1
<b>Host :</b>	Rabbit
<b>Modifications :</b>	Unmodified

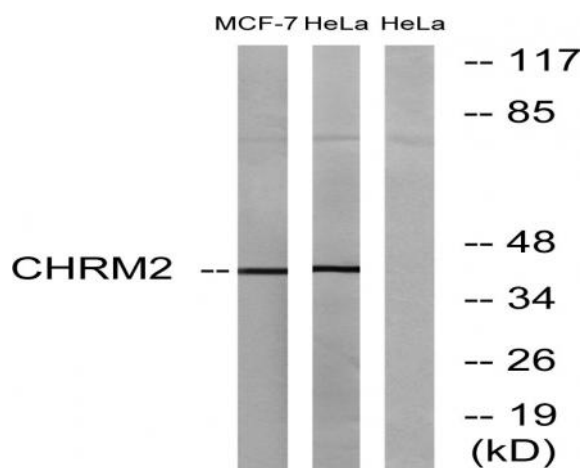
## Products Images



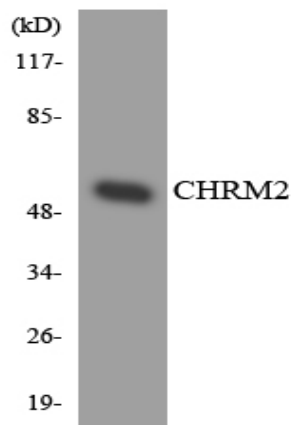
Western Blot analysis of HeLa cells using mAChR M2 Polyclonal Antibody



Immunofluorescence analysis of LOVO cells, using CHR M2 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HeLa and MCF-7 cells, using CHR M2 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HUVEC cells using CHRM2 antibody.